

CLAIMS

*Sub
P57*

1. An improved cellulosic insulation having reduced density and settling comprising

- (a) shredded cellulosic fibers and paper pieces which are precoated with a mixture of limestone and an antistatic agent either before or after the addition of
- (b) electrostatically positively charged fibers and
- (c) fire retardant chemicals which are adhered on said shredded cellulosic fibers, electrostatically positively charged fibers and paper pieces.

2. An insulation in accordance with claim 1 wherein said antistatic agent is a quaternary ammonium compound.

3. An insulation in accordance with claim 1 wherein said insulation comprises substantially 0.001% to 0.002% by weight of said antistatic agent, based on the weight of cellulosic fibers, paper pieces and positive electrostatic fiber input.

4. An insulation in accordance with claim 1 wherein said mixture of antistat and limestone comprises substantially 1% to 2% of the weight of cellulosic fibers, paper pieces and electrostatic positively charged fibers.

5. An insulation in accordance with claim 1 wherein said insulation comprises positively charged electrostatic fibers such as wood fibers, shredded cardboard, wood mulch and sawdust at a level of substantially 2% to 8% of the weight of cellulosic fibers, paper pieces and electrostatic positively charged fibers.

6. An insulation in accordance with claim 1 wherein said insulation comprises positively charged electrostatic fibers such as fiberglass or polyester fibers at a level of substantially 0.5% to 2% of the weight of cellulosic fibers, paper pieces and electrostatic positively charged fibers.

7. An insulation in accordance with claim 1 wherein the electrostatically negative paper fibers are angled predominantly from about 15% to perpendicular to the surface of the paper pieces.

8. A method for manufacturing fire retardant cellulosic insulation of the type comprising shredded cellulosic fibers precoated with a mixture of limestone and an antistatic agent

and having a fire retardant agent deposited on it wherein the improvement comprises adding a positively charged electrostatic fiber either before or after the addition of the mixture of limestone and an antistatic agent.

9. A method in accordance with claim 8 wherein positively charged electrostatic fibers such as ground cardboard, wood mulch, and sawdust are added in the amount of substantially 2% to 8% of the weight of the cellulosic fibers, paper pieces and electrostatic positively charged fibers.

10. A method in accordance with claim 8 wherein positively charged electrostatic fibers such as fiberglass or polyester are added substantially in the amount of 0.5% to 2% of the weight of cellulosic fiber, paper pieces and electrostatic positively charged fibers.